



# Brasfield & Gorrie Enhances Jobsite Safety with Workforce Data

Renowned Pediatric Hospital in the Southeast  
September 27, 2023



## INTRODUCTION

Brasfield & Gorrie was selected as the general contractor to build a major replacement pediatric hospital in the Southeast United States. Brasfield & Gorrie is one of the nation's largest privately held construction firms. Based in Birmingham, Alabama, Brasfield & Gorrie provides general contracting, design services, and construction management services to many markets including healthcare, commercial, institutional, federal, municipal, industrial, infrastructure, and water/wastewater treatment.

Field Control Analytics (FCA) harnesses technology to advance construction workforce data and analytics. FCA is recognized as the industry leader in the U.S., with over 20 years of experience, and a portfolio surpassing 2,000 construction projects of all sizes and industries. FCA's wide range of solutions help clients, large and small, begin to understand the true cost of labor on construction projects, track and manage the workforce, minimize risk, and improve safety.

FCA and Brasfield & Gorrie are active and engaged members of the Associated Builders and Contractors (ABC.org). ABC is a national construction industry trade association representing 22,000 members. Based on the merit shop philosophy, ABC helps its members develop people, win work, and deliver work safely, ethically, and profitably for the betterment of the communities in which they work. FCA is a national ABC Tech Alliance Partner, and the Tech Alliance was built in part to help drive ABC members' ability to deliver work safety, ethically, and profitably through improved utilization of technology.

FCA has supported ABC contractor members on 750 merit shop construction projects and is a STEP Silver Participant. Brasfield & Gorrie has won the prestigious ABC National Safety Excellence Award and Safety Excellence Award many years over.

Success is attributed to FCA working closely with its clients on projects where data and outcomes metrics based on agreed upon service levels are closely managed. Brasfield & Gorrie and FCA, both ABC National members, partnered on this major replacement pediatric hospital project. FCA provided services to Brasfield & Gorrie and its subcontractors, and this case study documents the agreed-upon outcome of value driven by FCA's delivered services.



# CHALLENGES

## PROJECT CLIMATE

The overarching theme of Brasfield & Gorrie's concerns was understanding *which* workers were on site and *when*. It seemed uncomplicated, but the project spanned 36 months, included onboarding 8,191 construction workers, and encompassed a peak manpower count of 1,630 unique workers as of Spring 2023. Accounting for this magnitude workforce using traditional manual processes creates many challenges. Manual documentation negatively impacts construction. Manual headcounts and counting of hours is inefficient, unproductive, and ultimately inaccurate. Storage of manual documentation forms its own challenges from siloed information causing miscommunication between project team members to lack of document storage space or missing records during audits and investigations.

# SOLUTIONS

**FCA ADVANTAGES.** Field Control Analytics ("FCA") provides workforce tracking/analytics for construction projects of all sizes and scopes around the country. Data is gathered by credentialing every worker who works on the job site including associated employer, demographics, safety certifications, and more. Each credentialed worker was issued a smart badge. FCA created protocol structure and focused streamlining of the onboarding process. FCA then set up access control points on the jobsite that captured each worker's scan time in and out of the site.

**CAPTURING WORKER DATA ON THE PROJECT.** By credentialing the workers before they can work on the site, FCA automated the workforce data gathering throughout the project. Field supervisors no longer relied on lagging data from subcontractor's self-report hours, nor did field supervisors waste valuable time gathering and entering that data. The data gathering and reporting was automated which allows those valuable resources to spend their time on more productive tasks.

**ACTIONABLE DATA.** After data was captured regarding when every worker was on site, Brasfield & Gorrie was able to analyze that data both real time and historically. 4,955,816 hours were logged through FCA's swipe system. Onsite, Brasfield & Gorrie was able to address the overarching issue of the case study.

**REPORTED LABOR HOURS.** Brasfield & Gorrie no longer relied on self-reporting from subcontractors.

- Certification that onsite labor counts and hours were accurate.
- Removed the possibility of miscalculated insurance rates.
- Provided accuracy for man hour reporting from a safety perspective and for safety calculations.
- Automated ability to filter headcounts and hours by trade and divisions of subcontractors.

**SAFETY CULTURE.** FCA's system was a key safety communication tool on the project.

- Texting the workforce real-time emergency communications was a critical part of the site safety plan and knowing who was onsite was vital to the texting system.
- Enrollment into the texting system was integrated into FCA's credentialing and badging process.
- Field supervisors had peace of mind that field workforce reporting included a *Who's In Right Now* report for emergency evacuation purposes.

**WORKER'S COMPENSATION CLAIMS.** Brasfield & Gorrie possessed current and historical data, whereby the project team was able to confirm whether or not a worker was on site at the time of an alleged incident.

**SCHEDULE TRACKING.** Brasfield & Gorrie was able to compare expected labor (broken down by trade) to actual labor on the site every day. This data provided the ability to spot and take immediate action toward inefficiencies and delays.

**CONCLUSION.** Field Control Analytics delivered Brasfield & Gorrie value in four (4) key areas:

- Minimized risk associated with uncredentialed/badged workers gaining access to the jobsite and improved safety through tools that support emergency site safety plans.
- Saved valuable time and money through the automation of daily tracking of subcontractor headcounts and labor hours.
  - 8,191 workers credentialed and badged
  - Peak headcount of 1,630 unique workers
- Helped Brasfield & Gorrie begin to understand the actual cost of construction labor – eliminated subcontractor self-reporting and replaced antiquated data with automated, verifiable, actionable data; automated hours totaling 4,955,816.
- Ascertained potential job delays through robust labor reporting.

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